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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	ATTORNEY DOCKET NO. CONFIRMATION NO.	
09/869,685	06/29/2001	Rene Bruno	P23,565-A US 8546		
7:	590 03/18/2004		EXAMINER		
Alexis Barron			NICKOL, GARY B		
Synnestvedt & Lechner 2600 Aramark Tower			ART UNIT	PAPER NUMBER	
1101 Markter Street Philadelphia, PA 19107-2950			1642		
			DATE MAILED: 03/18/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
Advisory Action	09/869,685	BRUNO, RENE	
Advisory Action	Examiner	Art Unit	
	Gary B. Nickol Ph.D.	1642	
The MAILING DATE of this communication appe	ars on the cover sheet with the c	orrespondence add	ress
THE REPLY FILED 01 March 2004 FAILS TO PLACE TI Therefore, further action by the applicant is required to avinal rejection under 37 CFR 1.113 may only be either: (1) condition for allowance; (2) a timely filed Notice of Appeal Examination (RCE) in compliance with 37 CFR 1.114.	oid abandonment of this applica a timely filed amendment whicl	ation. A proper reply n places the applica	y to a Ition in
PERIOD FOR RE	EPLY [check either a) or b)]		
a) \square The period for reply expires $\underline{6}$ months from the mailing date			e i de latan da
b) The period for reply expires on: (1) the mailing date of this A no event, however, will the statutory period for reply expire I ONLY CHECK THIS BOX WHEN THE FIRST REPLY WAS 706.07(f). Extensions of time may be obtained under 37 CFR 1.136(a). The ee have been filed is the date for purposes of determining the period cee under 37 CFR 1.17(a) is calculated from: (1) the expiration date of 2) as set forth in (b) above, if checked. Any reply received by the Officinely filed, may reduce any earned patent term adjustment. See 37 C	ater than SIX MONTHS from the mailing FILED WITHIN TWO MONTHS OF THe date on which the petition under 37 CF of extension and the corresponding amo the shortened statutory period for reply ce later than three months after the mai	g date of the final rejecti HE FINAL REJECTION. R 1.136(a) and the apprount of the fee. The approriginally set in the final	on. See MPEP opriate extension ropriate extension Office action; or
 A Notice of Appeal was filed on <u>01 March 2004</u>. Ap 37 CFR 1.192(a), or any extension thereof (37 CFF 	pellant's Brief must be filed with R 1.191(d)), to avoid dismissal o	in the period set for f the appeal.	th in
The proposed amendment(s) will not be entered be	ecause:		
(a) ☐ they raise new issues that would require further	er consideration and/or search (see NOTE below);	
(b) ☐ they raise the issue of new matter (see Note b	pelow);		
(c) they are not deemed to place the application in issues for appeal; and/or	n better form for appeal by mate	rially reducing or si	nplifying the
(d) they present additional claims without canceli	ing a corresponding number of f	inally rejected claim	S.
NOTE:			
3. Applicant's reply has overcome the following reject	tion(s):		
 Newly proposed or amended claim(s) would canceling the non-allowable claim(s). 	be allowable if submitted in a se	eparate, timely filed	amendment
5. ☐ The a) ☐ affidavit, b) ☐ exhibit, or c) ☐ request for application in condition for allowance because: see		idered but does NO	T place the
6. The affidavit or exhibit will NOT be considered becraised by the Examiner in the final rejection.	cause it is not directed SOLELY	to issues which wer	e newly
7. For purposes of Appeal, the proposed amendment explanation of how the new or amended claims we	t(s) a)⊡ will not be entered or b ould be rejected is provided belo)⊠ will be entered a ow or appended.	and an
The status of the claim(s) is (or will be) as follows:			
Claim(s) allowed:			
Claim(s) objected to:			
Claim(s) rejected: <u>1-5 and 30</u> .			
Claim(s) withdrawn from consideration: 6-29.			
8. The drawing correction filed on is a) app	roved or b) disapproved by t	the Examiner.	
9. Note the attached Information Disclosure Stateme	nt(s)(PTO-1449) Paper No(s)		
10.⊠ Other: <u>Attached</u>	, , , , , , ,		\sim
. o.g.y Othor. <u>Antagrios</u>	GARY NICKOL	Gangloner	lest
	PRIMARY EXAMINER	Gary B. Nickol Ph. Primary Examiner Art Unit: 1642	D.

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Response to Arguments

Claims 1-5, and 30 remain rejected under 35 U.S.C. 103(a) as being unpatentable over Bruno *et al.* (Cancer Surveys, Vol. 17, pages 305-313, 1993) and Urien *et al.* (Invest. New Drugs, Vol.14, pages 147-151, 1996, IDS) for the reasons of record.

Applicants reiterate that the combined references do not lend a reasonable expectation of success to the claimed method. Applicants further argue that while it is known that AAG may be the main determinant of docetaxel (taxoid) plasma binding variability and clearance, these properties, alone, fail to render obvious measuring the AAG levels in a patient to determine what dosage of a taxoid to administer to a patient. Applicants refer to Goodman and Gilman's "The Pharmacological Basis of Therapeutics" to demonstrate that other factors are involved in determining what dosage of a drug to administer to a patient, such as clearance, volume of distribution, and bioavailability. Applicants argue that each of these factors are unpredictable and can play a role in determining dosage of a given drug. This argument has been considered but is not found persuasive for the reasons of record. Further, while it is appreciated that pharmocokinetic factors such as clearance, volume of distribution, and bioavailability may be unpredictable, the teachings of Bruno et al. have clearly set forth a reasonable demonstration of the pharmacokinetic parameters involved with the administration of a taxoid via Phase I and II studies (page 310, Table 1) including a range of dosages, the infusion duration (hr), the peak, the area under the curve (AUC), the half-life, clearance, and excretion. Thus, in the absence of specific protein-binding information, Bruno et al., alone, demonstrate reasonable guidance in the

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selection of a proper taxoid dosage to be administered to a patient who is being treated for cancer.

Applicants further argue note (page 4), that "even if the Examiner persists in the belief that clearance is the sole factor relevant in the determination of a proper dose of taxoid", the state of the art at the time of applicant's invention was that it had not yet been settled as the whether AAG really was the main determinant of docetaxel clearance as claimed by Urien et al. Applicants note that the teachings of Marre et al. (Cancer Res., Vol. 56, 1996) indicated that CYP3A is a major influence on docetaxel clearance in humans. This argument has been considered but is not found persuasive. On one hand, a review of the prosecution history of this application does not appear to reveal that the Office has persisted in the belief that clearance is the sole factor relevant in the determination of a proper dose of taxoid. Secondly, with regards to the finding that CYP3A is a major influence on docetaxel clearance (Marre et al.), such information does not reasonably parallel the state of the art with regards to the claimed invention because it has not been shown that the metabolism and thus biotranformation of docetaxel by CYP3A would teach away or render unobvious the teachings of Urien et al. and Bruno et al. Also, with regards to Hirth et al. (Clincal Cancer Res, Vol. 6, 2000), applicants have argued that even after the filing date of the present application it was still uncertain whether CYP3A or AAG was the main determinant of docetaxel clearance. This argument has been considered but is not found persuasive because Hirth et al. admits that previous studies had larger sample sizes which may account for the observed differences of AAG's effect on clearance (1st column, page 1258). Further, Hirth et al. admit that docetaxel is strongly protein-bound to AAG, thus high AAG levels should decrease docetaxel clearance. Again, Hirth notes (1st column, page 1258) that

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"perhaps our study did not include as many patients with AAG levels", thus providing a possible

explanation for why AAG was not found to be an important predictor of docetaxel clearance in

their study compared to previous findings.

Applicants further reiterate (page 5) that the disclosed references fails to teach or suggest

all of the claimed limitations. This argument, having been previously considered, is not found

persuasive for the reasons of record. Thus, applicant's arguments have not been found persuasive

and the rejection is maintained.